



A.D. 1854 N^o 537.

SPECIFICATION

OF

SAMUEL AUSTIN CHAPIN.

APPARATUS FOR SUBJECTING SMOKE IN
CHIMNEYS TO THE PURIFYING
ACTION OF WATER.

LONDON:

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1854.



A.D. 1854 N° 537.

**Apparatus for Subjecting Smoke in Chimneys to the
Purifying Action of Water.**

(This Invention received Provisional Protection, but notice to proceed with the application for Letters Patent was not given within the time prescribed by the Act.)

PROVISIONAL SPECIFICATION left by Samuel Austin Chapin at the Office of the Commissioners of Patents, with his Petition, on the 6th March 1854.—A communication.

I, SAMUEL AUSTIN CHAPIN, of Trafalgar Square, Westminster, in the County
5 of Middlesex, do hereby declare the nature of the said Invention for “**AN IMPROVED MODE OF PURIFYING SMOKE PRODUCED BY THE COMBUSTION OF COAL OR OTHER SUBSTANCES, AND FOR CONDENSING AND COLLECTING THE SOLID AND OTHER MATTERS CONTAINED IN SMOKE AND VAPOR ARISING FROM THE COMBUSTION, SMELTING, BURNING, OR ROASTING OF FUEL AND OTHER SUBSTANCES,**” to be as follows:—

10 The Invention consists in the purification of smoke and vapour by means of water, so distributed, that the solid matter and impurities shall be condensed and carried off by the water before the smoke or vapour escapes from the chimney or flue.

Jets or showers of water are made to play within the chimney, or in a
15 chamber connected therewith; the smoke or vapour passes through the water, which condenses and carries off through passages arranged for the purpose all the heavy matters and impurities, and deposits them in a cistern or receptacle fitted to receive and retain them.

Chapin's Improved Mode of Purifying Smoke, &c.

What I claim is, the application of water or other liquid in the form of jets, showers, or in any other equivalent mode, within chimneys, flues, or any other smoke or vapour passages, for the purpose of purifying the smoke and vapours, for the collection of the substances contained therein, or for the two purposes conjointly.

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